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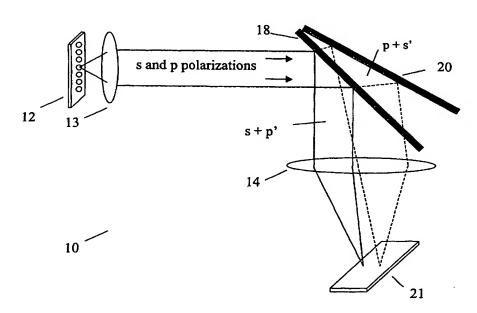
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(54) Title: POLARIZATION DETECTION



(57) Abstract: Disclosed is an optical device (10) for receiving light having a wavelength between 400 nm and 680 nm. The device has a polarizing beam splitter (PBS) (18) that comprises a substrate having a first and second surface, at least one of which being coated with a substantially parallel array of elongated conducting elements, wherein the PBS reflects light of a first polarity and transmits light of the opposite polarity; and a reflector (20) positioned to reflect the opposite polarity light back through the PBS (18) to the front surface, wherein the reflector (20) does not substantially alter the polarity of light at any position. The device (10) can be used to detect fluorescence polarization of a sample (12).



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C. DOC	CUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
x	US 6,252,668 B1 (HILL) 26 June 2001 (26.06.2001), Figures 2a, 6a; column 18, lines 6-		
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Α	US 4,908,508 A (DUBBELDAM) 13 March 1990 (13.03.1990), Figures 1-2.		1-49
Α	US 4,585,348 A (CHASTANG et al) 29 April 1986 (29.04.86), Figure 1.		1-49
Further	r documents are listed in the continuation of Box C.		
		See patent family annex.	
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